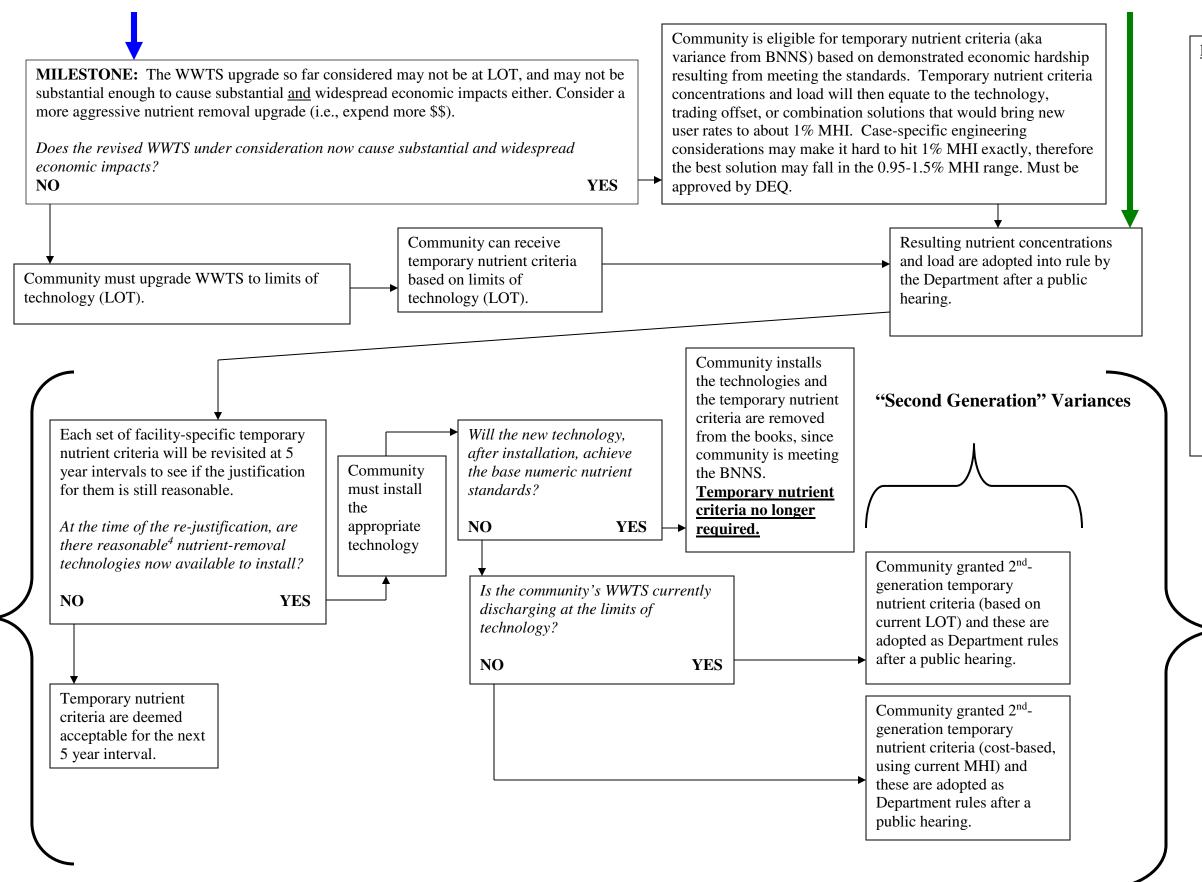
START HERE Undertake PER for community. Determine the WWTS upgrade necessary to comply with applicable standards including, if they can be met, base numeric nutrient standards (BNNS). It is only necessary to consider technologies up to DEO's defined limits of technology. The designed facility¹: **1.** Can comply, costs $\leq 1\%$ MHI **2.** Can comply, costs > 1% MHI **3.** Cannot comply, costs > 1% MHI **4.** Cannot comply, $\leq 1\%$ MHI If land application is being considered in lieu of a technological upgrade to WWTS, go directly to LAND APPLICATION box below Scenario 1 follows this path Scenarios _____ 2, 3, 4 follow this **1. Done.** Upgrade to the path WWTS is undertaken. **Temporary Nutrient** Criteria not required. **DONE**. Community develops a storage and land **MILESTONE**: Community must application system in compliance with permit requirements. decide whether to go with this option **LAND APPLICATION.** *Is land application a* Temporary Nutrient Criteria not required. or pursue temporary nutrient criteria good option for the community (e.g., could they Some communities may be (aka variance). Community may implement land application within a reasonable able to meet BNNS with I change its mind on this later, and cost, probably <2.0% MHI?) why a cost cap higher cost (>1 % MHI). could then pursue temporary nutrient here? They could choose to build criteria. the facility anyway if they want; it precludes the need for temporary nutrient criteria *Are there viable*² *nutrient trading* **DONE**. Community implements trading with point and/or non-point trading partner, and trade conditions are enforced in the MPDES options (point or non-point) Can nutrient trading completely offset permit. This option, after implementation, may or may not cost >1% available to the community within **MILESTONE**: the community's pending nutrient waste the watershed TMDL basin? MHI, but it is the community's choice and **Temporary Nutrient** Community can load allocation³? **YES** NO Criteria are not required. apply for temporary NO YES nutrient criteria. Are the economic impacts substantial Community is eligible for temporary nutrient criteria (aka What is the community's current user and widespread? variance from BNNS) based on economic hardship. waste-water rate relative to community's NO YES Temporary nutrient criteria set equal to concentrations and current % MHI? load from whatever their current WWTS produces. However, just meeting non-nutrient WQ standards alone ≤1.0% >1.0% may result in user rates >> 1% MHI. Community is eligible for temporary nutrient criteria (aka variance from BNNS) based on demonstrated economic hardship resulting from meeting the BNNS standards. Temporary nutrient criteria concentrations and load will then equate to the technology, trading offset, or combination solutions that would bring new user rates to about 1.0% MHI. Case-specific engineering considerations may make it hard to hit 1% MHI exactly, therefore the best

solution may fall in the 0.95-1.5% MHI range. Must be approved by DEQ.



FOOTNOTES

- 1. Cost in each of the scenarios refers to current user rates + additional rates after upgrade divided by community's median household income.
- 2. "Viable" means available and cost affective.
- 3. Both permits and the TMDL will set the waste load allocation as the WWTS's load that will meet the base numeric nutrient standards at the end of the mixing zone (or end of pipe if no dilution is available).
- 4. "Reasonable" means tested, readily installed, and not extremely expensive, i.e., the technology will not result in new user rates >> 1.0% of their current MHI.

Actions falling within these large brackets will re-iterate until (a) the current (i.e., 1st or 2nd generation) set of temporary nutrient criteria sunset at 20 years, at which point DEQ will have to take a hard look and see if base numeric nutrient standards and the beneficial uses they are set to protect are really achievable in the waterbodies in question; or (B) base numeric nutrient standards have been achieved and the temporary nutrient criteria are no longer in place.